CLAIM LISTNG

1. (Original) A biocompatible polymer composition, suitable for *in vivo* vessel repair, comprising a matrix pre-polymer, a filler and a curing agent, wherein said composition has a viscosity of 2 000 to 12 000 cSt at 25 °C and wherein said biocompatible polymer composition is curable in the presence of a curing catalyst at 37 °C to form a cured material with an elongation until rupture of at least 5 % and an elastic modulus of at least 1 MPa.

2. (Original) Composition according to claim 1, wherein the viscosity of the biocompatible polymer composition is in the range of 3 000 to 10 000 cSt, preferably of 4 000 to 8 000 cSt.

3. (Previously Presented) Composition according to claim 1, wherein said biocompatible polymer composition is curable in the presence of a curing catalyst at 37° C to form a cured material with an elongation until rupture of at least 10 %, preferably at least 25 %.

4. (Cancelled)

5. (Previously Presented) Composition according to claim 1, wherein the filler is a hydrophobic filler.

6. (Cancelled)

7. (Previously Presented) Composition according to claim 1, wherein the biocompatible polymer composition comprises a curing-inhibitor.

Claims 8-15 (Cancelled)

16. (Previously Presented) Kit of parts suitable for use in an *in vivo* vessel repair, comprising a biocompatible polymer composition according to claim 1, and a curing-catalyst composition.

17. (Previously Presented) Kit according to claim 1, wherein the curing catalyst composition comprises at least one component selected from the group consisting of matrix pre-polymers, fillers and contrast agents.

18. (Previously Presented) Kit according to claim 1, wherein the viscosity of the curing catalyst composition is at most 1 500 cSt higher or lower than the viscosity of the biocompatible polymer composition.

19. (Previously Presented) Kit according to claim 1, wherein the biocompatible polymer composition mixed with the curing catalyst composition, has a curing time of 5 min or less, preferably of less than 3 min.

20. (Previously Presented) Method for treating an aneurysm in a blood vessel comprising the steps of:

providing a composition according to claim 1;

covering the inner wall of the blood vessel with an essentially cylindrical layer of the composition; and

curing the composition.

21. (Cancelled)

22. (Previously Presented) Method for repairing an aneurysm in an artery comprising the steps of:

providing a composition according to claim 1; and

forming a stent comprising the composition *in situ* inside the artery.

23. (Previously Presented) Cured material, obtainable by curing a composition according to claim 1.

24. (Previously Presented) Method according to claim 20, wherein the aneurysm is an aortic aneurysm.

25. (Cancelled)